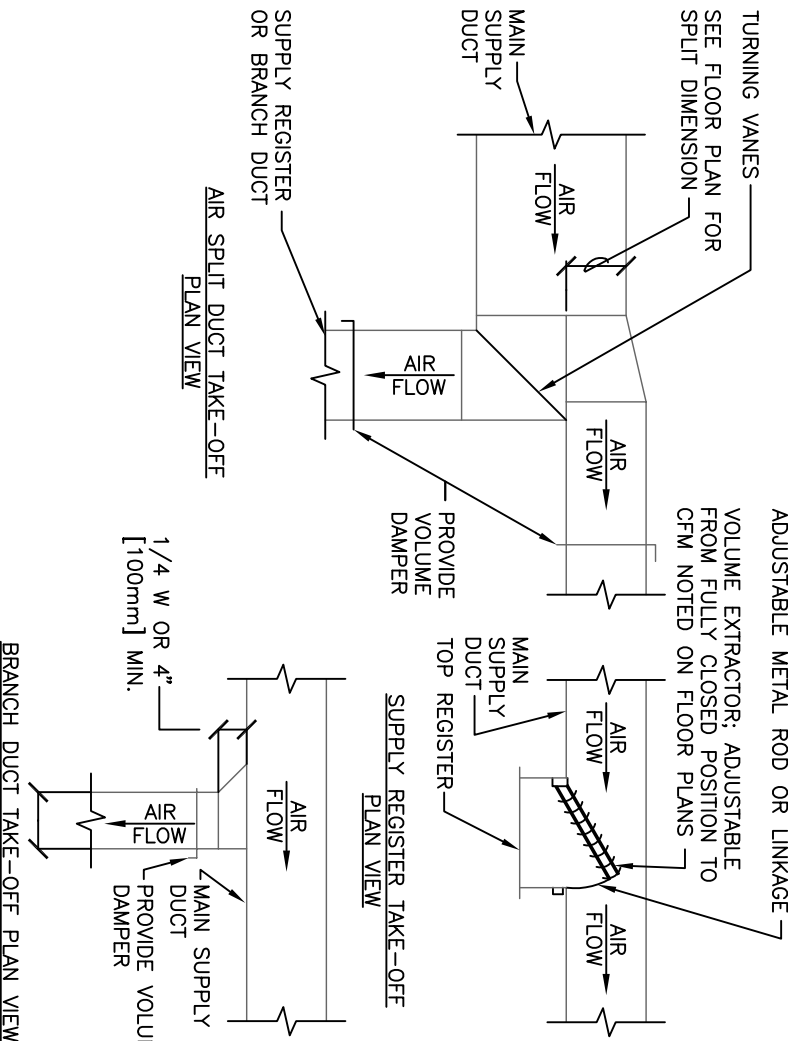


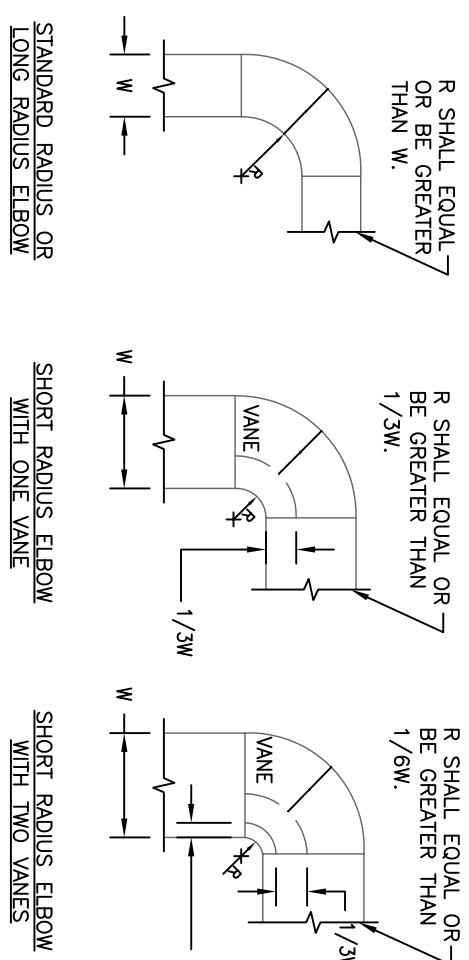
NOTE: UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

DUCTWORK TRANSITIONS



DESIGNER'S NOTES:

1. THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP TO 25% OF THE MAIN DUCT CAPACITY AND UP TO 50% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS. ALL OTHER CASES MAY BE USED IN ANY CASE.
2. SHOW ALL VOLUME DAMPERS ON FLOOR PLANS.



NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FINISHED TO REQUIREMENTS BY SHOWN.

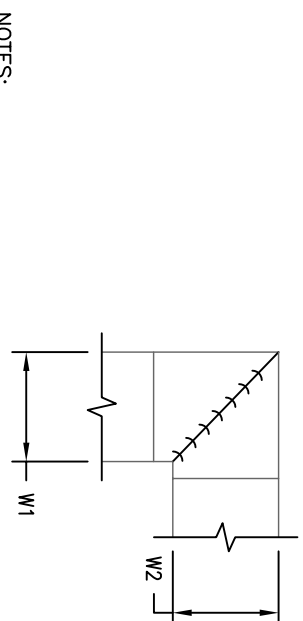
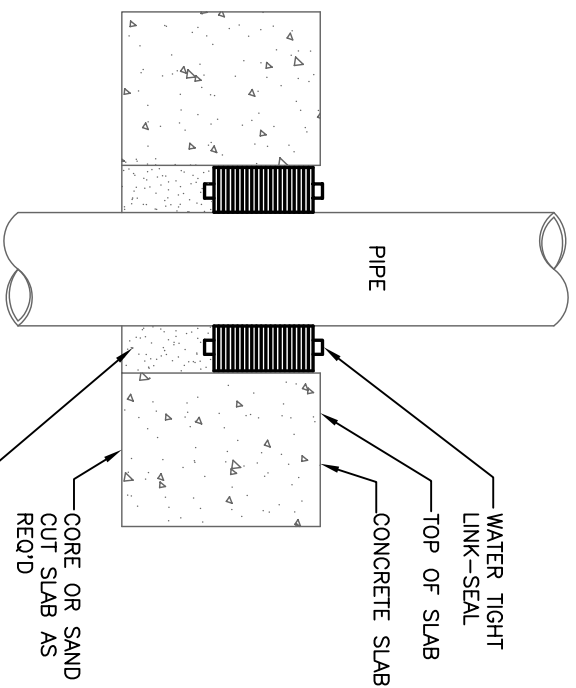
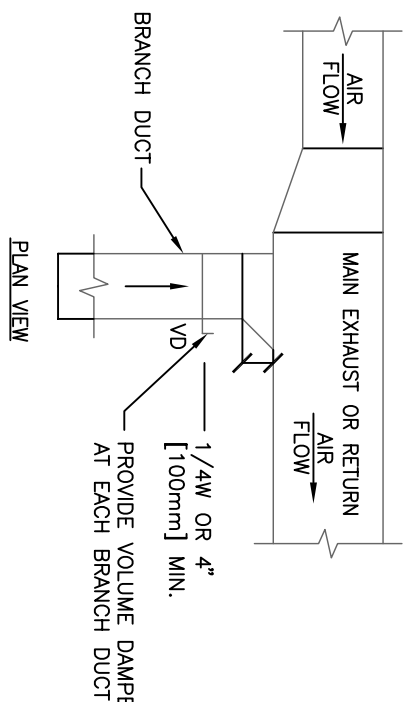
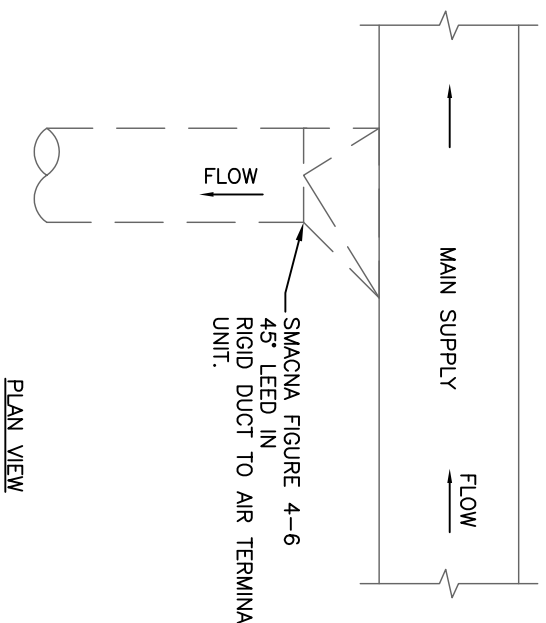
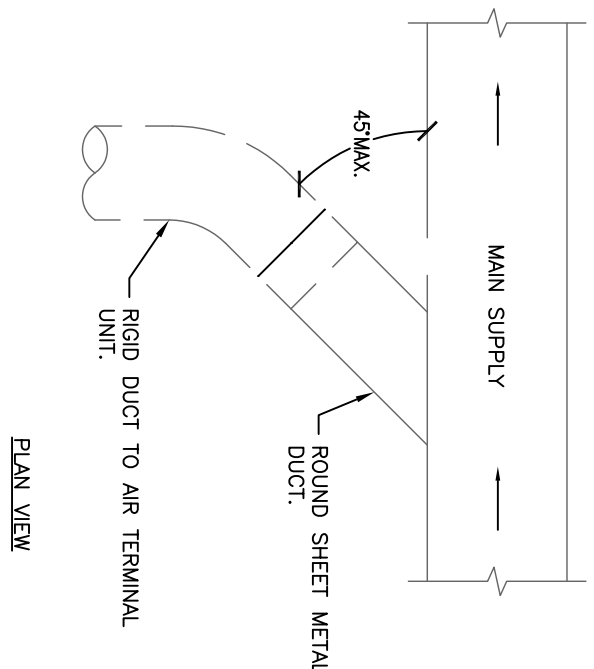
5 FLEXIBLE AIR DUCT CONNECTOR

6 ACCESS SECTION FOR ROUND/OVAL DUCT

7 (WITH EQUIPMENT MOUNTED IN DUCT)

8 SUPPLY DUCTWORK TAKE-OFFS

9 DUCTWORK RADIUS ELBOWS



NOTES:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAIL BY SHOWN.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 3/4\"/>
4. WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20\"/>

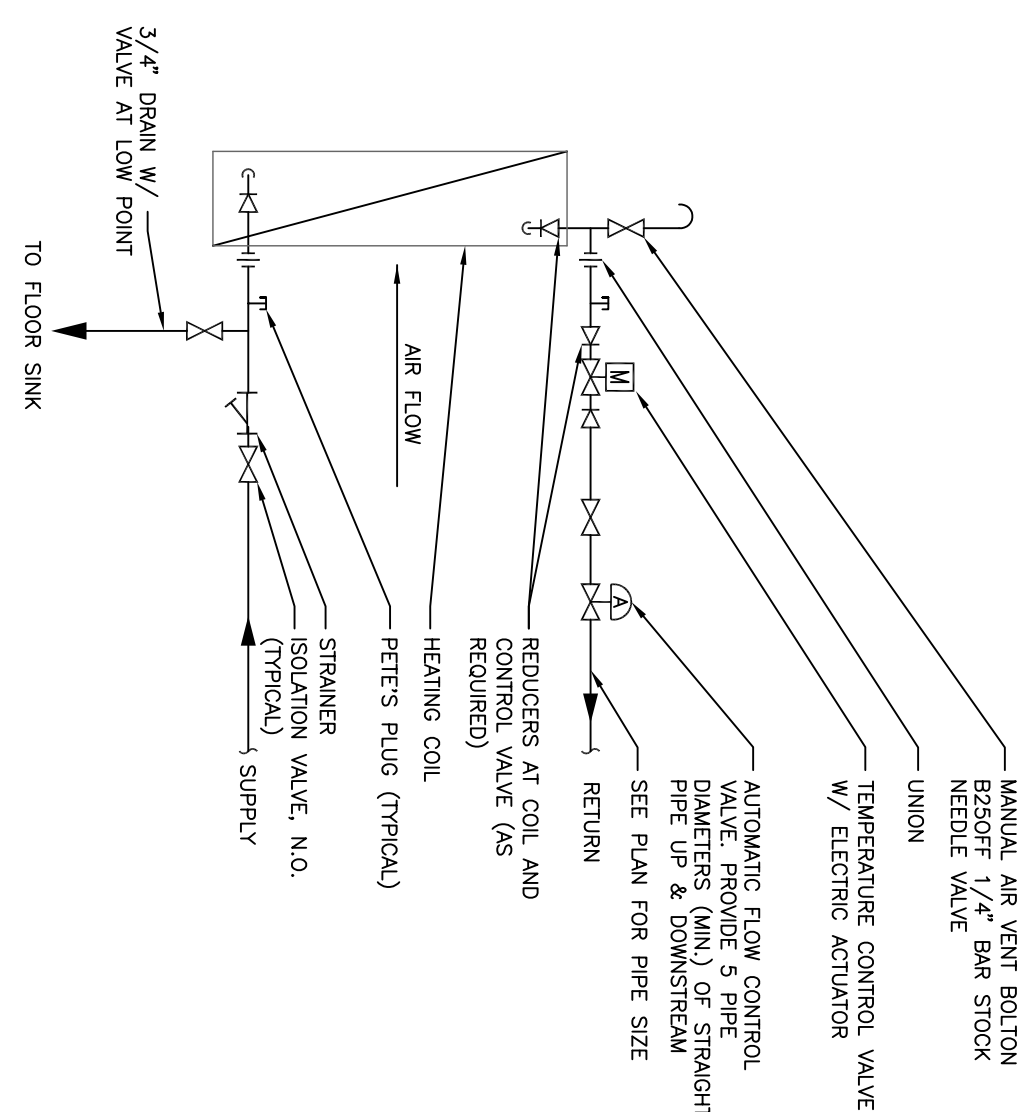
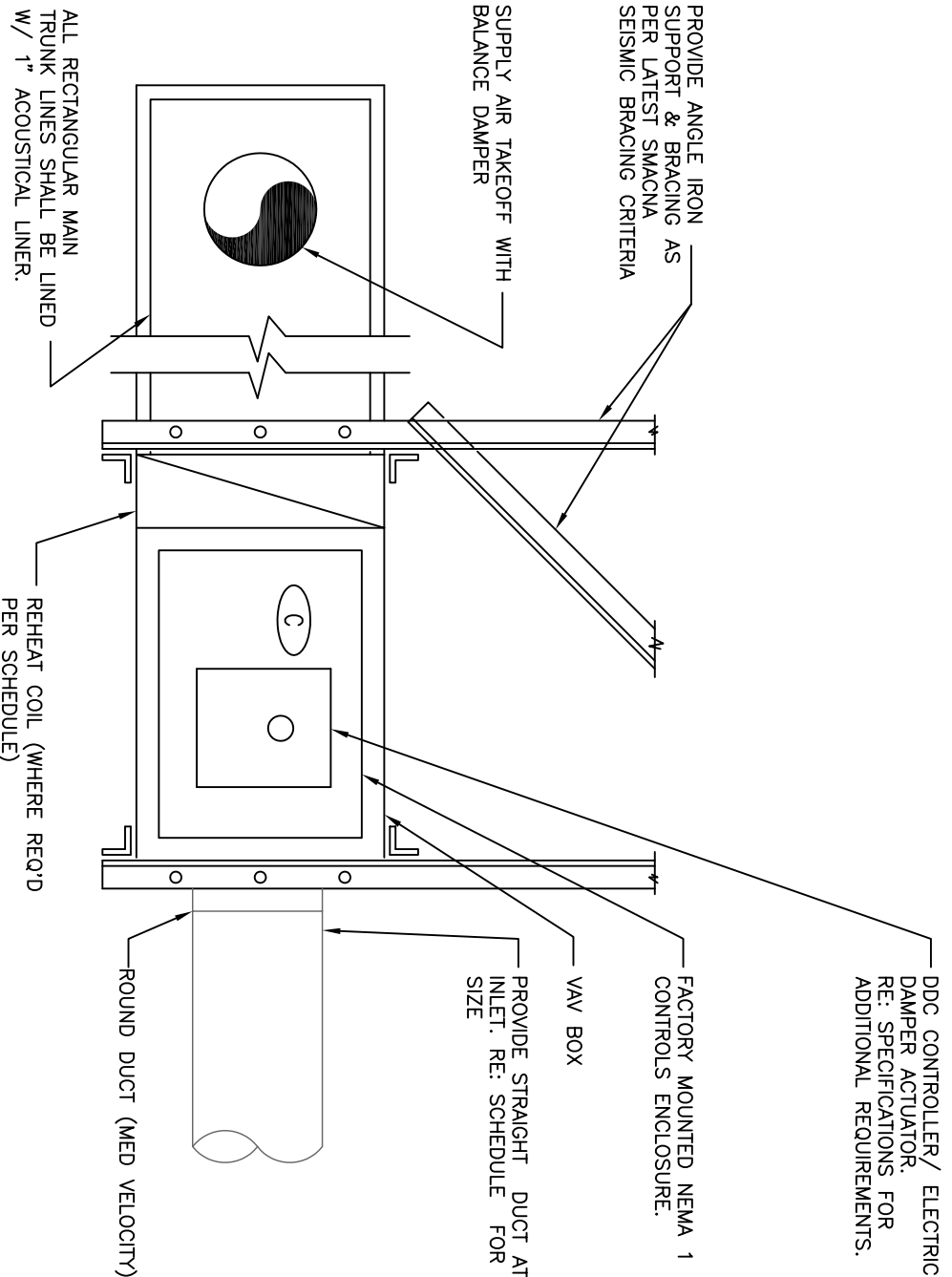
11 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT

12 ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS

13 EXHAUST OR RETURN BRANCH DUCTWORK

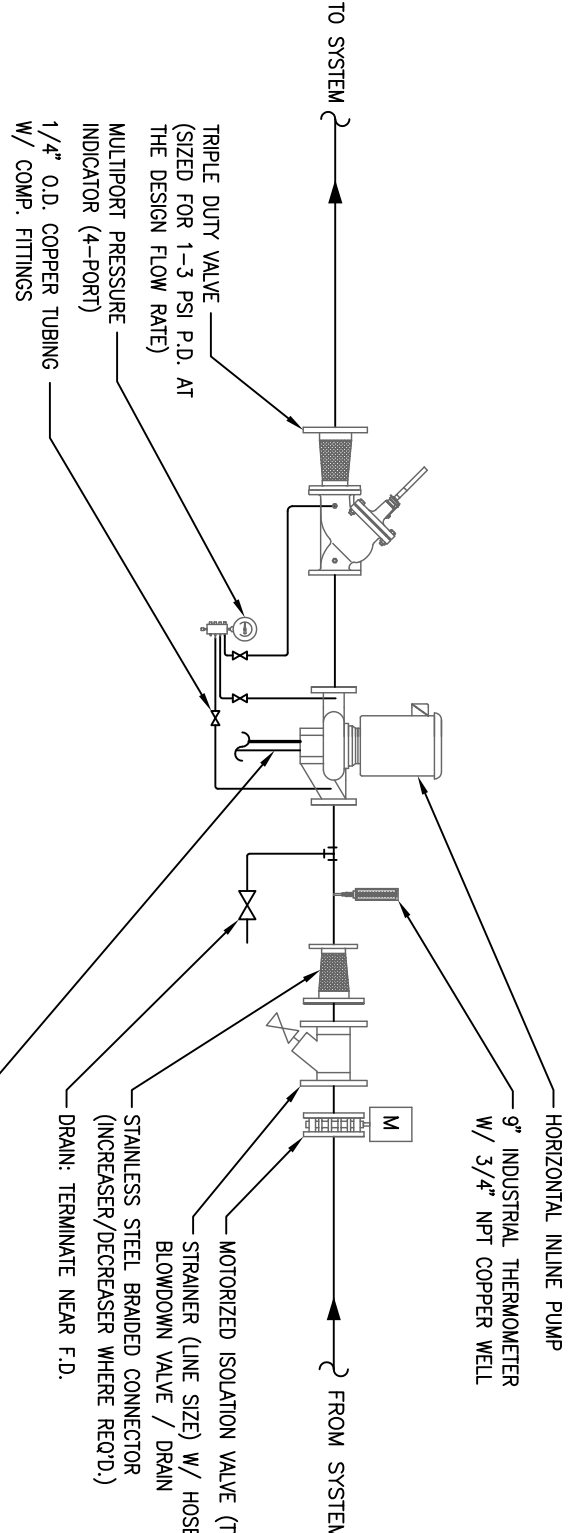
14 PIPE THRU SLAB ON GRADE DETAIL

10 DUCTWORK SQUARE VANE ELBOWS



NOTES:

1. PROVIDE HOSE BBS CONNECTION FOR UNITS IN CEILING SPACE.
2. WATER FLOW SHALL BE PIPED COUNTER TO AIR FLOW ISOLATION, TERMINAL UNIT SCHEDULE.
3. FINAL CONNECTION TO UNIT SHALL BE BY A FLEXIBLE BRAIDED HOSE.



11 VAV TERMINAL BOX SUPPORT

11 HOT WATER COIL PIPING DIAGRAM

12 HORIZONTAL INLINE PUMP DETAIL

95% SUBMISSION

REVISIONS	DATE

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STAMP

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT TITLE
**MECHANICAL
DETAILS**

PROJECT TITLE
VAMC
RENOVATE
BUILDING 33

BUILDING NUMBER
593

CHECKED
RME

DESIGNED
DJH

LOCATION
BOISE, IDAHO

DATE
03/04/11

PROJECT NO.
531-10-114

ISSUING NO.
M3.2

DWG 04 OF 102

DEPARTMENT OF VETERANS AFFAIRS